April 30, 2002



State of Idaho Department of Environmental Quality

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Executive Summary

Under the Safe Drinking Water Act Amendments of 1996, all states are required by the U.S. Environmental Protection Agency to assess every source of public drinking water for its relative sensitivity to contaminants regulated by the act. This assessment is based on a land use inventory of the designated assessment area and sensitivity factors associated with the wells and aquifer characteristics.

This report, *Source Water Assessment for the Basic American Foods, Shelley, Idaho* describes the public drinking water system, the boundaries of the zones of water contribution, and the associated potential contaminant sources located within these boundaries. This assessment should be used as a planning tool, taken into account with local knowledge and concerns, to develop and implement appropriate protection measures for this source. The results should <u>not be</u> used as an absolute measure of risk and they should <u>not be</u> used to undermine public confidence in the public water system (PWS).

The Basic American Foods (PWS # 6060020) is a non-community non-transient water system. The drinking water system consists of two well sources, Well #2 and Well #3. The wells serve approximately 700 persons. Well #2 is located within the plant packaging area and Well #3 is located on the south side of First Street in Shelley, Idaho.

The potential contaminant sources within the delineation capture zones include aboveground and underground fuel storage tank sites, dairies, gravel pits, and former leaking underground fuel storage tank sites. Also found were sites regulated under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), Superfund Amendments and Reauthorization Act (SARA), Resource Conservation Recovery Act (RCRA) and the Toxic Release Inventory (TRI). Additionally, Highway 91/26, Highway 20, and a railroad are transportation corridors that cross the delineations. If an accidental spill occurred from any of these potential contaminant sources, inorganic chemical contaminants, volatile organic chemical contaminants, synthetic organic chemical contaminants, or microbial contaminants could be added to the aquifer system. Other sources identified that may contribute to the overall vulnerability of the water source were the extensive network of irrigation canals and businesses within the delineated areas that may be considered potential contaminants sources. A complete list of potential contaminant sources is provided with this assessment.

For the assessment, a review of laboratory tests was conducted using the Idaho Drinking Water Information Management System (DWIMS) and the State Drinking Water Information System (SDWIS). Total coliform bacteria were detected in the distribution system in June 1998. For Well #2, the inorganic chemicals arsenic, barium, fluoride, mercury, and nitrate have been detected in the drinking water, but at levels below the maximum contaminant level for each chemical. The volatile organic chemical, tetrachloroethylene was detected in 1993, 1994, 1997, and 1999 with concentrations ranging from 0.6 micrograms per liter to 3.8 micrograms per liter (maximum contaminant level is 5 micrograms per liter). The presence of the volatile chemical has not been detected in the drinking water since 1999. No synthetic organic chemicals have been detected in the drinking water, but at levels below the maximum contaminant level for each chemical. The volatile organic chemical, tetrachloroethylene was detected in 1993, 1994, 1997, 1999, and 2001 with concentrations ranging from 0.5 micrograms per liter to 0.8 micrograms per liter (maximum contaminant level is 5 micrograms per liter). No synthetic organic chemicals have been detected in the drinking water.

The susceptibility ratings for the Basic American Foods drinking water system were based upon available information relating to soil drainage characteristics, agricultural land use, system construction, and potential contaminant sources identified within the well's zones of contribution. The final susceptibility rankings for the wells are high for inorganic, volatile organic, synthetic organic and microbial contaminants.

The capture zones for the wells intersect a priority area for the synthetic organic chemical atrazine. The organic priority area is areas where greater than 25 % of the wells show levels greater than 1% of the primary standard or other health standards (maximum contaminant level is 3 micrograms per liter for atrazine). Atrazine is a widely used herbicide for control of broadleaf and grassy weeds.

This assessment should be used as a basis for determining appropriate new protection measures or reevaluating existing protection efforts. No matter what ranking a source receives, protection is always important. Whether the source is currently located in a "pristine" area or an area with numerous industrial and/or agricultural land uses that require surveillance, the way to ensure good water quality in the future is to act now to protect valuable water supply resources. If the system should need to expand in the future, new well sites should be located in areas with as few potential sources of contamination as possible, and the site should be reserved and protected for this specific use.

For the Basic American Foods, drinking water protection activities should focus on identifying the source of tetrachloroethylene contamination in the wells. The system should also continue efforts aimed at keeping the distribution system free of microbial contaminants that may affect the drinking water quality. If microbial problems arise or if tetrachloroethylene concentrations approach or exceed the maximum contaminant level, the system should take appropriate measures to treat the water source. Treatments, such as disinfectant and filtration for microbials and granular activated charcoal and packed tower aeration for volatile organic chemical contaminants should be investigated to remedy these problems. In addition, drinking water protection activities should focus on correcting any deficiencies outlined in the sanitary survey (an inspection conducted every five years with the purpose of determining the physical condition of a water system's components and its capacity). The wells should maintain sanitary standards regarding wellhead protection. Also, any new sources that could be considered potential contaminant sources in the wells' zones of contribution should also be investigated and monitored to prevent future contamination. No potential contaminants (pesticides, paint, fuel, cleaning supplies, etc.) should be stored or applied within 50 feet of the wells. Land uses within most of the source water assessment area are outside the direct jurisdiction of the Basic American Foods. Therefore partnerships with state and local agencies, industrial and commercial groups should be established to ensure future land uses are protective of ground water quality. Educating employees about source water will further assist the system in its monitoring and protection efforts.

Due to the time involved with the movement of ground water, drinking water protection activities should be aimed at long-term management strategies even though these strategies may not yield results in the near term. A strong public education program should be a primary focus of any drinking water protection plan. Public education topics could include household hazardous waste disposal methods, proper lawn and garden care and the importance of water conservation to name but a few. There are multiple resources available to help water systems implement protection programs, including the Drinking Water Academy of the U.S. Environmental Protection Agency. Drinking water protection activities for agriculture should be coordinated with the Idaho State Department of Agriculture and the Bingham County Soil and Water Conservation District. As major transportation corridors intersect the delineations (such as Highway 91/26 and Highway 20), the Idaho Department of Transportation should be involved in protection efforts.

A system must incorporate a variety of strategies in order to develop a comprehensive drinking water protection plan, be they regulatory in nature (i.e. zoning, permitting) or non-regulatory in nature (i.e. good housekeeping, public education, specific best management practices). For assistance in developing protection strategies please contact the Pocatello Regional Office of the Idaho Department of Environmental Quality or the Idaho Rural Water Association.

SOURCE WATER ASSESSMENT FOR BASIC AMERICAN FOODS,_SHELLEY, IDAHO

Section 1. Introduction - Basis for Assessment

The following sections contain information necessary to understand how and why this assessment was conducted. It is important to review this information to understand what the ranking of this source means. A map showing the delineated source water assessment area and the inventory of significant potential sources of contamination identified within that area are contained in this report. The list of significant potential contaminant source categories and their rankings used to develop this assessment is also attached.

Level of Accuracy and Purpose of the Assessment

The Idaho Department of Environmental Quality (DEQ) is required by the U.S. Environmental Protection Agency (EPA) to assess over 2,900 public drinking water sources in Idaho for their relative susceptibility to contaminants regulated by the Safe Drinking Water Act. This assessment is based on a land use inventory of the delineated assessment area, sensitivity factors associated with the wells, and aquifer characteristics. All assessments must be completed by May of 2003. The resources and time available to accomplish assessments are limited. Therefore, an in-depth, site-specific investigation to identify each significant potential source of contamination for every public water system is not possible. **This assessment should be used as a planning tool, taken into account with local knowledge and concerns, to develop and implement appropriate protection measures for this source.** The results should <u>not be</u> used as an absolute measure of risk and they should not be used to undermine public confidence in the water system.

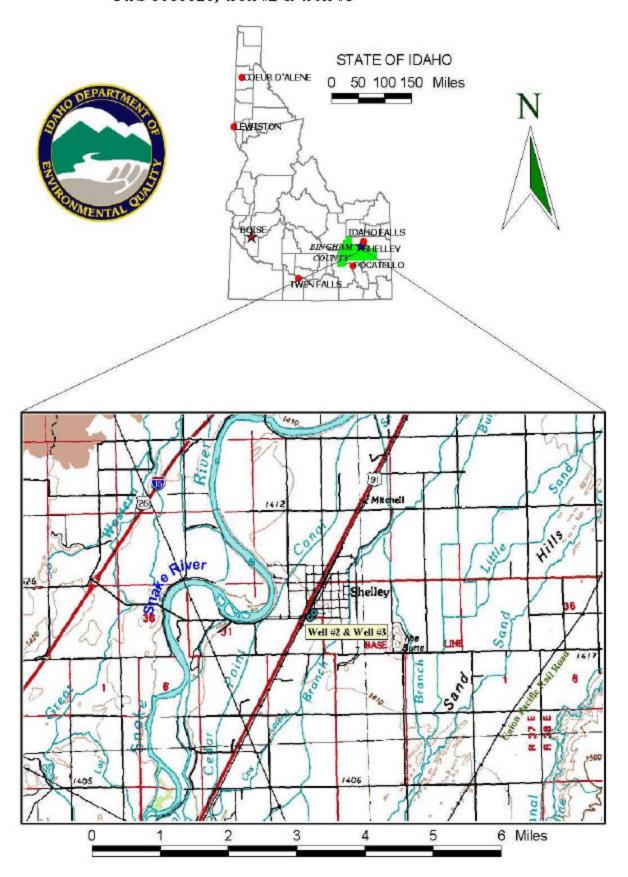
The ultimate goal of the assessment is to provide data to local communities to develop a protection strategy for their drinking water supply system. DEQ recognizes that pollution prevention activities generally require less time and money to implement than treatment of a public water supply system once it has been contaminated. DEQ encourages communities to balance resource protection with economic growth and development. The decision as to the amount and types of information necessary to develop a drinking water protection program should be determined by the local community based on its own needs and limitations. Wellhead or drinking water protection is one facet of a comprehensive growth plan, and it can complement ongoing local planning efforts.

Section 2. Conducting the Assessment

General Description of the Source Water Quality

The Basic American Foods is a non-community non-transient public drinking water system located in Bingham County (Figure 1). This system consists of two well sources that provides drinking water to approximately 700 persons. For Well #2 water, tetrachloroethylene was detected in 1993, 1994, 1997, and 1999 with concentrations ranging from 0.6 micrograms per liter (μ g/L) to 3.8 μ g/L. For Well #3 water, tetrachloroethylene was detected in 1993, 1994, 1997, 1999, and 2001 with concentrations ranging from 0.5 μ g/L to 0.8 μ g/L.

FIGURE 1 - Geographic Location of Basic American Food, PWS 6060020, Well #2 & Well #3



The inorganic chemicals (IOCs) arsenic, barium, fluoride, mercury and nitrate represent the main water chemistry constituents recorded in the public water system, although the reported concentrations of these chemicals were below the maximum contaminant level (MCL) for each chemical, as set by the EPA. Total coliform bacteria were detected in the distribution system in June 1998. Water chemistry tests have not detected synthetic organic contaminants (SOCs) in the drinking water.

Defining the Zones of Contribution--Delineation

The delineation process establishes the physical area around a well that will become the focal point of the assessment. The process includes mapping the boundaries of the zone of contribution into time-of-travel zones (zones indicating the number of years necessary for a particle of water to reach a pumping well) for water in the aquifer. Washington Group International (WGI) was contracted by DEQ to define the public water system's zones of contribution. WGI used a refined computer model approved by the EPA in determining the 3-year (Zone 1B), 6-year (Zone 2), and 10-year (Zone 3) Time-of-Travel (TOT) for water associated with the East Margin Area of the Eastern Snake River Plain (ESRP) hydrologic province in the vicinity of the Basic American Foods. The computer model used site specific data, assimilated by WGI from a variety of sources including operator records well logs and hydrogeologic reports. A summary of the hydrogeologic information from the WGI is provided below.

The East Margin Area encompasses 821 square miles, representing approximately 8 percent of the total area of the ESRP hydrologic province. The majority of the East Margin Area is within Bingham County, with small areas occurring in Bannock, Bonneville, and Power counties.

The regional ESRP aquifer is the most significant aquifer in the East Margin Area and consists primarily of basalt of the Quaternary-aged Snake River Group. However, additional water-bearing units are used for water supply along the margin of the ESRP. In order of decreasing age, the most significant aquifers in the Michaud Flats area are bedded rhyolite (volcanic rock) of the Tertiary-aged Starlight Formation and Quaternary-aged gravels of a low relief plain formed by running water (pediment), basalt of the Big Hole Formation, and stream deposits of the Sunbeam Formation (see Jacobson, 1982, p. 7, and Corbett, et al., 1980, pp. 6-10). A few shallow domestic wells in the central Michaud Flats area also are completed in Michaud Gravel, which is the shallow water-table aquifer. The American Falls Lake Beds Formation (AFLB) confines the deeper aquifers and averages 80 feet in thickness in the central Michaud Flats area (Jacobson, 1984, p. 6). The AFLB pinches out in the eastern Michaud Flats area near the Portneuf River, effectively combining the shallow and deep stream deposits into a single water table aquifer (Bechtel, 1994, p. 2-2). Other aquifers in the East Margin Area include fractured quartzite that has been developed near Blackfoot, stream deposits near the cities of Firth and Basalt, and pediment gravels in the Gibson Terrace area near Tyhee and Chubbuck.

PWS wells in the East Margin Area of the ESRP province produce water from five different aquifers: the Regional Eastern Snake River Plain aquifer, three alluvial (or stream deposited) aquifers (Eastern Michaud Flats, Firth/Basalt, and Gibson Terrace/Pocatello Bench) and a quartzite aquifer (Blackfoot).

The ESRP is a northeast trending basin located in southeastern Idaho. The 10,000 square miles of the plain are primarily filled with highly fractured layered Quaternary-aged basalt flows of the Snake River Group, which are between (intercalated) layers of rocks formed by sediment deposition (sedimentary) along the margins (Garabedian, 1992, p. 5). Quaternary-aged basalts are estimated to be 100 to 1,500 feet thick, with the majority of the area in the range of 100 to 500 feet thick (Whitehead, 1992, Plate 3). Individual basalt flows range from 10 to 50 feet thick, averaging 20 to 25 feet thick (Lindholm, 1996, p. 14). Basalt is thickest in the

central part of the eastern plain and thins toward the margins. Whitehead (1992, p. 9) estimates the total thickness of the flows to be as great as 5,000 feet. A thin layer (0 to 100 feet) of windblown and stream-produced sediments overlies the basalt. The plain is bounded on the northeast by rocks of the Yellowstone Group (mainly rhyolite) and Idavada Volcanics to the southwest. These rocks may also underlie the plain (Garabedian, 1992, p. 5). Granite of the Idaho batholith borders the plain to the northwest, along with sedimentary rocks and rocks changed by heat and/or pressure (metamorphic) (Cosgrove et al., 1999, p. 10). The Snake River flows along part of the southern boundary and is the only drainage that leaves the plain. A high degree of connectivity with the regional aquifer system is displayed over much of the river as it passes through the plain. However, some reaches are believed to be perched or separated from the main ground water by unsaturated rock, such as the Lewisville-to-Shelly reach. Rivers and streams entering the plain from the south are tributary to the Snake River. With the exception of the Big and Little Wood rivers, rivers entering from the north vanish into the basalts of the Snake River Plain aquifer that have a higher ability to transmit water.

The layered basalts of the Snake River Group host one of the most productive aquifers in the United States. The aquifer is generally considered unconfined, yet may be confined locally because of interbedded clay and dense unfractured basalt (Whitehead, 1992, p. 26). Whitehead (1992, p. 22) and Lindholm (1996, p.1) report that well yields of 2,000 to 3,000 gal/min are common for wells open to less than 100 feet of the aquifer. Transmissivities obtained from test data in the upper 100 to 200 feet of the aquifer range from less than 0.1 square feet per second (ft²/sec) to 56 ft²/sec (1.0x10⁴ to 4.8x10⁶ ft²/day; Garabedian, 1992, p. 11, and Lindholm, 1996, p. 18). Lindholm (1996, p. 18) estimates aquifer thickness to range from 100 feet near the plain's margin to thousands of feet near the center. Models of the regional aquifer have used values ranging from 200 to 3,000 feet to represent aquifer thickness (Cosgrove et al., 1999, p.15).

Regional ground water flow is to the southwest paralleling the basin (Cosgrove et al., 1999; deSonneville, 1972, p. 78; Garabedian, 1992, p. 48; and Lindholm, 1996, p. 23). Reported water table gradients range from 3 to 100 ft/mile and average 12 ft/mile (Lindholm, 1996, p. 22). Gradients steepen at the plain's margin and at discharge locations. The estimated effective ratio of the rock's open space volume to its total volume range from 0.04 to more than 0.25 (Ackerman, 1995, p.1, and Lindholm, 1996, p.16).

The majority of aquifer recharge results from surface water irrigation activities (incidental recharge), which divert water from the Snake River and its tributaries (Ackerman, 1995, p. 4, and Garabedian, 1992, p. 11) and locally from canal leakage. Natural recharge occurs through stream losses, direct precipitation, and tributary basin underflow.

Aquifer discharge occurs primarily as seeps and springs on the northern wall of the Snake River canyon near Thousand Springs and near American Falls and Blackfoot (Garabedian, 1992, p.17). To a lesser degree, discharge also occurs through pumping and underflow.

The East Margin Area is among the most transmissive regions of the regional aquifer, therefore it has a higher ability to transmit water. A transmissivity of 21 ft²/sec was used to represent the upper 200 feet of the regional aquifer in the East Margin Area in the three-dimensional USGS ground water flow model (Garabedian, 1992, Plate 6). The equivalent hydraulic conductivity or the rate at which water can move through permeable material is 9,072 feet per day (ft/day). This value is consistent with the range of hydraulic conductivity (9,500 to 11,708 ft/day) calculated using data from a

constant-rate aquifer test conducted in 1981 (Jacobson, 1982, p. 23). This range was calculated by dividing the estimated transmissivity (228,000 to 281,000 ft²/day) by the perforated interval of the observation well (24 feet). The geometric mean hydraulic conductivity based on analysis of specific capacity data from PWS wells (135 ft/day) is significantly lower.

A published water table map of the Upper Snake River Basin (IDWR, 1997, p. 9) indicates that the ground water flow direction in the ESRP aquifer in the East Margin Area is similar to that depicted at the regional scale (e.g., Garabedian, 1992, Plate 4).

Recharge from precipitation and surface water irrigation in the East Margin Area ranges from less than 10 to more than 20 inches per year (Garabedian,1992, Plate 8). The low end of the range applies to the area near Blackfoot, while the high end applies to the area on the west side of American Falls Reservoir near Aberdeen.

Kjelstrom (1995, p. 13) reports an annual river loss of 280,000 acre-feet to the regional basalt aquifer for the 27.5-mile Lewisville-to-Shelley reach of the Snake River and 110,000 acre-feet for the 23.5-mile Shelley-to-Blackfoot reach (Figure 3). Annual river gains of 1,900,000 acre-feet for the 36.6-mile Blackfoot-to-Neeley reach are also estimated (Kjelstrom,1995, p. 13). A seepage study conducted in the fall of 1980 on the Portneuf River showed a gain of about 560 cubic feet per second (ft³/sec) (405,691 acre-feet) for the 13-mile Pocatello-to-American Falls Reservoir reach (Jacobson, 1982, p. 16). The average flow in the Blackfoot River near the city of Blackfoot is low at Station #13068500 (5.2 ft³/sec; USGS, 2001) compared to the flow in the Snake River near the city of Blackfoot at Station #13069500 (2,900 ft³/sec; USGS, 2001).

The water producing zones for the Basic American Foods wells are from the regional basalt aquifer. The delineated source water assessment area for the Basic American Foods wells trend in a northeast direction and is elongated and conical in shape. The length of the delineation extends approximately 24 miles and extends into the City of Idaho Falls. In this case the Snake River is assumed to be the western boundary source of the aquifer. The actual data used by WGI in determining the source water assessment delineation areas are available from DEQ upon request.

Identifying Potential Sources of Contamination

A potential source of contamination is defined as any facility or activity that stores, uses, or produces, as a product or by-product, the contaminants regulated under the Safe Drinking Water Act. Furthermore, these sources have a sufficient likelihood of releasing such contaminants into the environment at levels that could pose a concern relative to drinking water sources. The goal of the inventory process is to locate and describe those facilities, land uses, and environmental conditions that are potential sources of ground water contamination. Field surveys conducted by DEQ and reviews of available databases identified potential contaminant sources within the delineation areas. Some of these sources include underground fuel storage tank sites, dairies, gravel pits and former leaking underground fuel storage tank sites.

It is important to understand that a release may never occur from a potential source of contamination provided best management practices are used at the facility. Many potential sources of contamination are regulated at the federal level, state level, or both to reduce the risk of release. Therefore, when a business, facility, or property is identified as a potential contaminant source, this should not be interpreted to mean that this business, facility, or property is in violation of any local, state, or federal environmental law or regulation. What it does mean is that the <u>potential</u> for contamination exists due to the nature of the business, industry, or operation. There are a number of methods that water systems can use to work cooperatively with potential sources of contamination, such as educational visits and inspections of stored materials. Many owners of such facilities may not even be aware that they are located near a public water supply well.

Contaminant Source Inventory Process

A contaminant inventory of the study area was conducted during the winter of 2001. This involved identifying and documenting potential contaminant sources within the Basic American Foods source water assessment area through the use of computer databases and Geographic Information System (GIS) maps developed by DEQ. Maps with well locations, delineated areas and potential contaminant sources are provided with this report (Figure 2). Each potential contaminant source has been given a unique site number that references tabular information associated with the public water wells (Appendix A).

Section 3. Susceptibility Analyses

The susceptibility of the wells to contamination was ranked as high, moderate, or low risk according to the following considerations: hydrologic characteristics, physical integrity of the wells, land use characteristics, and potentially significant contaminant sources. The susceptibility rankings are specific to a particular potential contaminant or category of contaminants. Therefore, a high susceptibility rating relative to one potential contaminant does not mean that the water system is at the same risk for all other potential contaminants. The relative ranking that is derived for the wells is a qualitative, screening-level step that, in many cases, uses generalized assumptions and best professional judgement. Appendix B contains the susceptibility analysis worksheets. The following summaries describe the rationale for the susceptibility ranking.

Hydrologic Sensitivity

The hydrologic sensitivity of a well is dependent upon four factors. These factors are surface soil composition, the material in the vadose zone (between the land surface and the water table), the depth to first ground water, and the presence of a 50-foot thick fine-grained zone above the water producing zone of the well. Slowly draining soils such as silt and clay typically are more protective of ground water than coarse-grained soils such as sand and gravel. Similarly, fine-grained sediments in the subsurface and a water depth of more than 300 feet from the surface protect the ground water from contamination.

Hydrologic sensitivity was rated high for both wells (Table 1). This is based upon moderate to well drained soil classes defined by the National Resource Conservation Service (NRCS). Soils that have poor to moderate drainage characteristics have better filtration capabilities than faster draining soils. The wells are also potentially sensitive due to their vadose compositions consisting mostly of sand and gravel. The depth to first ground water for both wells is less than 300 feet from the surface. In addition, the wells lack 50 feet cumulative thickness of low permeability material that helps to reduce the downward movement of contaminants.

Well Construction

Well construction directly affects the ability of the well to protect the aquifer from contaminants. System construction scores are reduced when information shows that potential contaminants will have a more difficult time reaching the intake of the well. Lower scores imply a system that can better protect the water. If the casing and annular seal both extend into a low permeability unit then the possibility of cross contamination from other aquifer layers is reduced and the system construction score goes down. If the highest production interval is more than 100 feet below the water table, then the system is considered to have better buffering capabilities. When information was adequate, a determination was made as to whether the casing and annular seals extend into low permeability units and whether current public water system (PWS) construction standards are met.

The system construction score was rated high for both wells. The sanitary survey states there are no well vents on the wellheads. The purpose of the vent is to vent the space between the casing and the column and prevent a vacuum from forming when the well turns on and draws down the water table. A vacuum could draw in contamination through joints or leaks in the casing or cause the well to slough. The sanitary survey also states the surface seals are in good condition. For Well #2, the well log indicates the well is completed to a depth of 150 feet below ground surface (bgs) into broken lava rock. There was insufficient well log information to determine the depth of the annular seal. The well casing extends to a depth of 122 feet into broken lava rock. The static water level was recorded at 70 feet bgs in 1956 and the highest production unit occurs less than 100 feet below the static water level. The well casing extends 12-inches above the ground level and is located outside of a 100-year floodplain, decreasing the chance of contaminants being drawn into the drinking water source by surface water flooding.

For Well #3, the well log indicates the well is completed to a depth of 243 feet bgs into pea gravel and sand material. There was insufficient well log information to determine the depth of the annular seal. The well casing extends to a depth of 165 feet into lava rock and from 166 feet to 243 feet the well is open hole, no well screen or casing. The static water level was recorded at 92 feet bgs in 1958 and the highest production unit occurs at least 100 feet below the static water level. The well casing extends 12-inches above the ground level and is located outside of a 100-year floodplain, decreasing the chance of contaminants being drawn into the drinking water source by surface water flooding.

The Idaho Department of Water Resources (IDWR) *Well Construction Standards Rules* (1993) require all public water systems to follow DEQ standards. IDAPA 58.01.08.550 requires that PWSs follow the *Recommended Standards for Water Works* (1997) during construction. Under current standards, all PWS wells are required to have a 50-foot buffer around the wellhead and if the well is designed to yield greater than 50 gallons per minute (gpm) a minimum of a 6-hour pump test is required. These standards are used to rate the system construction for the well by evaluating items such as condition of wellhead and surface seal, whether the casing and annular space is within consolidated material or 18 feet below the surface, the thickness of the casing, etc. If all criteria are not met, the public water source does not meet the IDWR Well Construction Standards. In this case, there was insufficient information available to determine if the wells meets all the criteria outlined in the IDWR Well Construction Standards.

Potential Contaminant Source and Land Use

The potential contaminant sources and land use within the delineated zones of water contribution are assessed to determine the well's susceptibility. When agriculture is the predominant land use in the area, this may increase the likelihood of agricultural wastewater infiltrating the ground water system. Agricultural land is counted as a source of leachable contaminants and points are assigned to this rating based on the percentage of agricultural land. The predominant land use within the delineated capture zones of the Basic American Foods is irrigated agricultural land.

In terms of potential contaminant sources and land use susceptibility the ratings are as follows. The wells rated high for IOCs (i.e., nitrates), VOCs (i.e. petroleum related products), and SOCs (i.e., pesticides) and moderate for microbial contaminants (i.e., fecal coliform).

Most of the potential contaminant sources fall within the 6-10 year TOT zones. These sources include underground fuel storage tanks, dairies, and former leaking underground storage tanks. The locations of potential contaminant sources and delineated TOT zones for the wells are shown on Figure 2.

Final Susceptibility Rating

A detection above a drinking water standard (MCL), any detection of a VOC or SOC, or having potential contaminant sources within 50 feet of the wellhead will automatically give a high susceptibility rating to the final well ranking despite the land use of the area because a pathway for contamination already exists. Hydrologic sensitivity and system construction scores are heavily weighted in the final scores. Having multiple potential contaminant sources in the 0 to 3-year time of travel zone (Zone 1B) and a large percentage of agricultural land contribute greatly to the overall ranking. The final susceptibility ranking for the wells was high for IOC, VOC, SOC, and microbial contaminants. These ratings reflect the hydrologic sensitivity, system construction, and potential contaminants inventory and land use within the delineated source water assessment areas for the wells.

Table 1. Summary of Basic American Foods Susceptibility Evaluation

Drinking	Susceptibility Scores									
Water Sources	Hydrologic Sensitivity		Contaminant Inventory		System Construction	Fi	nal Susce	ptibility	Ranking	
		IOC	VOC	SOC	Microbials		IOC	VOC	SOC	Microbials
Well #2	Н	Н	Н	Н	M	Н	Н	H*	Н	Н
Well #3	Н	Н	Н	Н	M	Н	Н	H*	Н	Н

H = High Susceptibility, M = Moderate Susceptibility, L = Low Susceptibility

IOC = inorganic chemical, VOC = volatile organic chemical, SOC = synthetic organic chemical; H* = Indicates source automatically scored as high susceptibility due to the detection of VOC in the finished drinking water.

Susceptibility Summary

The IOC chemicals arsenic, barium, fluoride, mercury and nitrate represent the main water chemistry recorded in the public water system, although the reported concentrations of these chemicals were below the MCL for each chemical. For Well #2, tetrachloroethylene was detected in the drinking water in 1993, 1994, 1997 and 1999. For Well #3, tetrachloroethylene was detected in the drinking water in 1993, 1994, 1997, 1999 and 2001.

The county level agriculture-chemical use is considered high in this area due to the significant amount of agricultural land. Although there may only be a small portion of agriculture land in the direct vicinity of the well, it is useful as a tool in determining the overall chemical usage such as pesticides and how it may impact ground water through infiltration and surface water runoff. In addition, there were potential sources of contamination found within the wells' delineated TOT zones (Figure 2).

Section 4. Options for Drinking Water Protection

This assessment should be used as a basis for determining appropriate new protection measures or reevaluating existing protection efforts. No matter what ranking a source receives, protection is always important. Whether the source is currently located in a "pristine" area or an area with numerous industrial and/or agricultural land uses that require surveillance, the way to ensure good water quality in the future is to act now to protect valuable water supply resources. If the system should need to expand in the future, new well sites should be located in areas with as few potential sources of contamination as possible, and the site should be reserved and protected for this specific use.

An effective drinking water protection program is tailored to the particular local drinking water protection area. A community with a fully developed drinking water protection program will incorporate many strategies. For the Basic American Foods, drinking water protection activities should focus on identifying the source of tetrachloroethylene contamination in the wells. The system should also continue efforts aimed at keeping the distribution system free of microbial contaminants that may affect the drinking water quality. If microbial problems arise or if tetrachloroethylene concentrations approach or exceed the maximum contaminant level, the system should take appropriate measures to treat the water source. Treatments, such as disinfectant and filtration for microbials and granular activated charcoal and packed tower aeration for volatile organic chemical contaminants should be investigated to remedy these problems. In addition, drinking water protection activities should focus on correcting any deficiencies outlined in the sanitary survey. The wells should maintain sanitary standards regarding wellhead protection. Also, any new sources that could be considered potential contaminant sources in the wells' zones of contribution should also be investigated and monitored to prevent future contamination. No potential contaminants (pesticides, paint, fuel, cleaning supplies, etc.) should be stored or applied within 50 feet of the wells. Land uses within most of the source water assessment area are outside the direct jurisdiction of the Basic American Foods. Therefore partnerships with state and local agencies, industrial and commercial groups should be established to ensure future land uses are protective of ground water quality. Educating employees and the public about source water will further assist the system in its monitoring and protection efforts.

Due to the time involved with the movement of ground water, drinking water protection activities should be aimed at long-term management strategies even though these strategies may not yield results in the near term. A strong public education program should be a primary focus of any drinking water protection plan. Public education topics could include household hazardous waste disposal methods and the importance of water conservation to name but a few. There are multiple resources available to help water systems implement protection programs, including the Drinking Water Academy of the EPA. Drinking water protection activities for agriculture should be coordinated with the Idaho State Department of Agriculture and the Bingham County Soil and Water Conservation District. Any major transportation corridors that intersect the delineation (such as Highway 91/26 and Highway 20), the Idaho Department of Transportation should be involved in protection efforts.

Assistance

Public water supplies and others may call the following DEQ offices with questions about this assessment and to request assistance with developing and implementing a local protection plan. In addition, draft protection plans may be submitted to the DEQ office for preliminary review and comments.

DEQ Pocatello Regional Office (208) 236-6160

DEQ State Office (208) 373-0502

Website: http://www.deq.state.id.us

Water suppliers serving fewer than 10,000 persons may contact Ms. Melinda Harper, Idaho Rural Water Association, at 208-343-7001 (mlharper@idahoruralwater.com) for assistance with drinking water protection (formerly wellhead protection) strategies.

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POTENTIAL CONTAMINANT INVENTORY LIST OF ACRONYMS AND DEFINITIONS

<u>AST (Aboveground Storage Tanks)</u> – Sites with aboveground storage tanks

<u>Business Mailing List</u> – This list contains potential contaminant sites identified through a yellow pages database search of standard industry codes (SIC).

<u>CERCLIS</u> – This includes sites considered for listing under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). CERCLA, more commonly known as ASuperfund≅ is designed to clean up hazardous waste sites that are on the national priority list (NPL).

<u>Cyanide Site</u> – DEQ permitted and known historical sites/facilities using cyanide.

<u>Dairy</u> – Sites included in the primary contaminant source inventory represent those facilities regulated by Idaho State Department of Agriculture (ISDA) and may range from a few head to several thousand head of milking cows.

<u>Deep Injection Well</u> – Injection wells regulated under the Idaho Department of Water Resources generally for the disposal of stormwater runoff or agricultural field drainage.

Enhanced Inventory – Enhanced inventory locations are potential contaminant source sites added by the water system. These can include new sites not captured during the primary contaminant inventory, or corrected locations for sites not properly located during the primary contaminant inventory. Enhanced inventory sites can also include miscellaneous sites added by the Idaho Department of Environmental Quality (DEQ) during the primary contaminant inventory.

Floodplain – This is a coverage of the 100-year floodplains.

<u>Group 1 Sites</u> – These are sites that show elevated levels of contaminants and are not within the priority one areas.

<u>Inorganic Priority Area</u> – Priority one areas where greater than 25% of the wells/springs show constituents higher than primary standards or other health standards.

<u>Landfill</u> – Areas of open and closed municipal and non-municipal landfills.

<u>LUST (Leaking Underground Storage Tank)</u> – Potential contaminant source sites associated with leaking underground storage tanks as regulated under RCRA.

<u>Mines and Quarries</u> – Mines and quarries permitted through the Idaho Department of Lands.)

<u>Nitrate Priority Area</u> – Area where greater than 25% of wells/springs show nitrate values above 5 mg/l.

NPDES (National Pollutant Discharge Elimination

System) – Sites with NPDES permits. The Clean Water Act

requires that any discharge of a pollutant to waters of the United States from a point source must be authorized by an NPDES permit.

<u>Organic Priority Areas</u> – These are any areas where greater than 25% of wells/springs show levels greater than 1% of the primary standard or other health standards.

Recharge Point – This includes active, proposed, and possible recharge sites on the Snake River Plain.

RCRA – Site regulated under Resource Conservation
Recovery Act (RCRA). RCRA is commonly associated with
the cradle to grave management approach for generation,
storage, and disposal of hazardous wastes.

SARA Tier II (Superfund Amendments and

Reauthorization Act Tier II Facilities) – These sites store certain types and amounts of hazardous materials and must be identified under the Community Right to Know Act.

Toxic Release Inventory (TRI) – The toxic release inventory list was developed as part of the Emergency Planning and Community Right to Know (Community Right to Know) Act passed in 1986. The Community Right to Know Act requires the reporting of any release of a chemical found on the TRI list.

<u>UST (Underground Storage Tank)</u> – Potential contaminant source sites associated with underground storage tanks regulated as regulated under RCRA.

<u>Wastewater Land Applications Sites</u> – These are areas where the land application of municipal or industrial wastewater is permitted by DEQ.

<u>Wellheads</u> – These are drinking water well locations regulated under the Safe Drinking Water Act. They are not treated as potential contaminant sources.

NOTE: Many of the potential contaminant sources were located using a geocoding program where mailing addresses are used to locate a facility. Field verification of potential contaminant sources is an important element of an enhanced inventory.

Appendix A

Basic American Foods Potential Contaminant Sources

Table 2. Potential Contaminants

Site #	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
1	LUST Site-Cleanup Incomplete	0-3	Database Inventory	VOC, SOC
2	LUST Site-Cleanup Incomplete	0-3	Database Inventory	VOC, SOC
3	LUST Site-Cleanup Complete	0-3	Database Inventory	VOC, SOC
4	UST Site-Closed	0-3	Database Inventory	VOC, SOC
5	UST Site-Closed	0-3	Database Inventory	VOC, SOC
6	UST Site-Closed	0-3	Database Inventory	VOC, SOC
7	UST Site-Closed	0-3	Database Inventory	VOC, SOC
8	UST Site-Open	0-3	Database Inventory	VOC, SOC
9	UST Site-Closed	0-3	Database Inventory	VOC, SOC
10	UST Site-Open	0-3	Database Inventory	VOC, SOC
11	UST Site-Closed	0-3	Database Inventory	VOC, SOC
12	UST Site-Open	0-3	Database Inventory	VOC, SOC
13	UST Site-Closed	0-3	Database Inventory	VOC, SOC
14	UST Site-Open	0-3	Database Inventory	VOC, SOC
15	UST Site-Closed	0-3	Database Inventory	VOC, SOC
16	Dairy	0-3	Database Inventory	IOC, Microbials
17	Crane Service	0-3	Database Inventory	VOC, SOC
19	Logging	0-3	Database Inventory	VOC, SOC
21	Color-Offset Photo Engraving	0-3	Database Inventory	IOC, VOC
22	Well Drilling	0-3	Database Inventory	IOC, VOC, SOC
23	Mechanical Contractors	0-3	Database Inventory	IOC, VOC, SOC
24	Potato Harvesting/Planting Equipment-	0-3	Database Inventory	VOC, SOC
25	Farm Supplies (Wholesale)	0-3	Database Inventory	IOC, SOC
26	Water Works Equipment & Supplies-	0-3	Database Inventory	IOC, VOC, SOC
27	Printers	0-3	Database Inventory	IOC, VOC
29	Trucking-Heavy Hauling	0-3	Database Inventory	VOC, SOC
30	Nurserymen	0-3	Database Inventory	IOC, SOC
31	Powder Coatings-Manufacturers	0-3	Database Inventory	SOC
32	Furniture-Manufacturers	0-3	Database Inventory	VOC, SOC
33	Auto Repair & Service	0-3	Database Inventory	IOC, VOC, SOC
34	Grading Contractors	0-3	Database Inventory	IOC, VOC, SOC
35	Cleaners	0-3	Database Inventory	VOC
37	Garbage Collection	0-3	Database Inventory	IOC, VOC, SOC,
38	Welding	0-3	Database Inventory	IOC, VOC, SOC
39	Printers	0-3	Database Inventory	IOC, VOC
40	Funeral Directors	0-3	Database Inventory	IOC, SOC
42	Printers	0-3	Database Inventory	IOC, VOC
44	Newspapers (Publishers)	0-3	Database Inventory	IOC, VOC
45	Trailer-Manufacturers Trailer-Manufacturers	0-3	Database Inventory	VOC, SOC
46	Truck Renting & Leasing	0-3	Database Inventory	VOC, SOC
47	NPDES Site	0-3	Database Inventory	IOC, Microbials
48	Toxic Release Inventory Site	0-3	Database Inventory	VOC, SOC

Site #	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
49	Toxic Release Inventory Site	0-3	Database Inventory	VOC, SOC
51	CERCLA Site	0-3	Database Inventory	IOC, VOC
52	RCRA Site	0-3	Database Inventory	IOC, VOC, SOC
53	RCRA Site	0-3	Database Inventory	VOC, SOC
54	RCRA Site	0-3	Database Inventory	VOC
55	RCRA Site	0-3	Database Inventory	VOC, SOC
56	Mine	0-3	Database Inventory	IOC, VOC, SOC
57	Deep Injection Well	0-3	Database Inventory	IOC, VOC, SOC,
58	SARA Site	0-3	Database Inventory	VOC, SOC
59	SARA Site	0-3	Database Inventory	IOC, VOC, SOC
60	SARA Site	0-3	Database Inventory	IOC, VOC, SOC
61	SARA Site	0-3	Database Inventory	IOC, VOC, SOC
62	SARA Site	0-3	Database Inventory	VOC, SOC
63	SARA Site	0-3	Database Inventory	VOC, SOC
64	SARA Site	0-3	Database Inventory	VOC, SOC
65	SARA Site	0-3	Database Inventory	IOC, VOC, SOC
66	SARA Site	0-3	Database Inventory	VOC, SOC
67	SARA Site	0-3	Database Inventory	VOC, SOC
68	SARA Site	0-3	Database Inventory	IOC, VOC, SOC,
69	Recharge Point	0-3	Database Inventory	IOC, VOC, SOC
70	AST Site	0-3	Database Inventory	VOC, SOC
71	AST Site	0-3	Database Inventory	VOC, SOC
72	Group 1 Site	0-3	Database Inventory	,
73	LUST Site-Cleanup Complete	3-6	Database Inventory	VOC, SOC
74	LUST Site-Cleanup Complete	3-6	Database Inventory	VOC, SOC
75	LUST Site-Cleanup Complete	3-6	Database Inventory	VOC, SOC
76	LUST Site-Cleanup Complete	3-6	Database Inventory	VOC, SOC
77	LUST Site-Cleanup Complete	3-6	Database Inventory	VOC, SOC
78	LUST Site-Cleanup Complete	3-6	Database Inventory	VOC, SOC
79	LUST Site-Cleanup Complete	3-6	Database Inventory	VOC, SOC
80	LUST Site-Cleanup Complete	3-6	Database Inventory	VOC, SOC
81	LUST Site-Cleanup Complete	3-6	Database Inventory	VOC, SOC
82	LUST Site-Cleanup Complete	3-6	Database Inventory	VOC, SOC
83	LUST Site-Cleanup Complete	3-6	Database Inventory	VOC, SOC
84	LUST Site-Cleanup Incomplete	3-6	Database Inventory	VOC, SOC
85	LUST Site-Cleanup Incomplete	3-6	Database Inventory	VOC, SOC
86	UST Site-Closed	3-6	Database Inventory	VOC, SOC
87	UST Site-Closed	3-6	Database Inventory	VOC, SOC
88	UST Site-Closed	3-6	Database Inventory	VOC, SOC
89	UST Site-Open	3-6	Database Inventory	VOC, SOC
90	UST Site-Closed	3-6	Database Inventory	VOC, SOC
91	UST Site-Open	3-6	Database Inventory	VOC, SOC

Site #	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
92	UST Site-Closed	3-6	Database Inventory	VOC, SOC
93	UST Site-Open	3-6	Database Inventory	VOC, SOC
94	UST Site-Closed	3-6	Database Inventory	VOC, SOC
95	UST Site-Closed	3-6	Database Inventory	VOC, SOC
96	UST Site-Closed	3-6	Database Inventory	VOC, SOC
97	UST Site-Closed	3-6	Database Inventory	VOC, SOC
98	UST Site-Closed	3-6	Database Inventory	VOC, SOC
99	UST Site-Open	3-6	Database Inventory	VOC, SOC
100	UST Site-Open	3-6	Database Inventory	VOC, SOC
101	UST Site-Open	3-6	Database Inventory	VOC, SOC
102	UST Site-Closed	3-6	Database Inventory	VOC, SOC
103	UST Site-Closed	3-6	Database Inventory	VOC, SOC
104	UST Site-Open	3-6	Database Inventory	VOC, SOC
105	UST Site-Closed	3-6	Database Inventory	VOC, SOC
106	UST Site-Closed	3-6	Database Inventory	VOC, SOC
107	UST Site-Closed	3-6	Database Inventory	VOC, SOC
108	UST Site-Open	3-6	Database Inventory	VOC, SOC
109	UST Site-Closed	3-6	Database Inventory	VOC, SOC
110	UST Site-Open	3-6	Database Inventory	VOC, SOC
111	UST Site-Closed	3-6	Database Inventory	VOC, SOC
112	UST Site-Closed	3-6	Database Inventory	VOC, SOC
113	UST Site-Closed	3-6	Database Inventory	VOC, SOC
114	UST Site-Closed	3-6	Database Inventory	VOC, SOC
115	UST Site-Closed	3-6	Database Inventory	VOC, SOC
116	UST Site-Closed	3-6	Database Inventory	VOC, SOC
117	UST Site-Closed	3-6	Database Inventory	VOC, SOC
118	UST Site-Closed	3-6	Database Inventory	VOC, SOC
119	UST Site-Open	3-6	Database Inventory	VOC, SOC
120	UST Site-Open	3-6	Database Inventory	VOC, SOC
121	UST Site-Closed	3-6	Database Inventory	VOC, SOC
122	UST Site-Closed	3-6	Database Inventory	VOC, SOC
123	UST Site-Closed	3-6	Database Inventory	VOC, SOC
124	UST Site-Closed	3-6	Database Inventory	VOC, SOC
125	UST Site-Closed	3-6	Database Inventory	VOC, SOC
126	UST Site-Open	3-6	Database Inventory	VOC, SOC
127	UST Site-Closed	3-6	Database Inventory	VOC, SOC
128	UST Site-Closed	3-6	Database Inventory	VOC, SOC
129	UST Site-Open	3-6	Database Inventory	VOC, SOC
130	UST Site-Closed	3-6	Database Inventory	VOC, SOC
131	UST Site-Closed	3-6	Database Inventory	VOC, SOC
132	UST Site-Closed	3-6	Database Inventory	VOC, SOC
133	UST Site-Open	3-6	Database Inventory	VOC, SOC

Site #	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
134	UST Site-Open	3-6	Database Inventory	VOC, SOC
135	UST Site-Open	3-6	Database Inventory	VOC, SOC
136	UST Site-Open	3-6	Database Inventory	VOC, SOC
137	UST Site-Closed	3-6	Database Inventory	VOC, SOC
138	UST Site-Open	3-6	Database Inventory	VOC, SOC
139	UST Site-Closed	3-6	Database Inventory	VOC, SOC
140	UST Site-Closed	3-6	Database Inventory	VOC, SOC
141	UST Site-Closed	3-6	Database Inventory	VOC, SOC
142	UST Site-Open	3-6	Database Inventory	VOC, SOC
143	UST Site-Closed	3-6	Database Inventory	VOC, SOC
144	UST Site-Closed	3-6	Database Inventory	VOC, SOC
145	UST Site-Closed	3-6	Database Inventory	VOC, SOC
146	UST Site-Closed	3-6	Database Inventory	VOC, SOC
147	UST Site-Open	3-6	Database Inventory	VOC, SOC
148	UST Site-Closed	3-6	Database Inventory	VOC, SOC
149	UST Site-Closed	3-6	Database Inventory	VOC, SOC
150	UST Site-Closed	3-6	Database Inventory	VOC, SOC
151	UST Site-Open	3-6	Database Inventory	VOC, SOC
152	UST Site-Closed	3-6	Database Inventory	VOC, SOC
153	UST Site-Closed	3-6	Database Inventory	VOC, SOC
154	UST Site-Closed	3-6	Database Inventory	VOC, SOC
155	UST Site-Closed	3-6	Database Inventory	VOC, SOC
156	UST Site-Closed	3-6	Database Inventory	VOC, SOC
157	UST Site-Closed	3-6	Database Inventory	VOC, SOC
158	UST Site-Closed	3-6	Database Inventory	VOC, SOC
159	UST Site-Open	3-6	Database Inventory	VOC, SOC
160	UST Site-Closed	3-6	Database Inventory	VOC, SOC
161	UST Site-Closed	3-6	Database Inventory	VOC, SOC
162	UST Site-Closed	3-6	Database Inventory	VOC, SOC
163	UST Site-Open	3-6	Database Inventory	VOC, SOC
164	UST Site-Closed	3-6	Database Inventory	VOC, SOC
165	UST Site-Closed	3-6	Database Inventory	VOC, SOC
166	UST Site-Closed	3-6	Database Inventory	VOC, SOC
167	UST Site-Closed	3-6	Database Inventory	VOC, SOC
168	UST Site-Open	3-6	Database Inventory	VOC, SOC
169	UST Site-Open	3-6	Database Inventory	VOC, SOC
170	UST Site-Closed	3-6	Database Inventory	VOC, SOC
171	UST Site-Open	3-6	Database Inventory	VOC, SOC
172	UST Site-Closed	3-6	Database Inventory	VOC, SOC
173	UST Site-Open	3-6	Database Inventory	VOC, SOC
174	UST Site-Open	3-6	Database Inventory	VOC, SOC
175	UST Site-Closed	3-6	Database Inventory	VOC, SOC

Site #	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
176	UST Site-Closed	3-6	Database Inventory	VOC, SOC
177	UST Site-Closed	3-6	Database Inventory	VOC, SOC
178	UST Site-Closed	3-6	Database Inventory	VOC, SOC
179	UST Site-Open	3-6	Database Inventory	VOC, SOC
180	UST Site-Open	3-6	Database Inventory	VOC, SOC
181	UST Site-Closed	3-6	Database Inventory	VOC, SOC
182	UST Site-Closed	3-6	Database Inventory	VOC, SOC
183	UST Site-Closed	3-6	Database Inventory	VOC, SOC
184	UST Site-Open	3-6	Database Inventory	VOC, SOC
185	UST Site-Closed	3-6	Database Inventory	VOC, SOC
186	UST Site-Open	3-6	Database Inventory	VOC, SOC
187	UST Site-Closed	3-6	Database Inventory	VOC, SOC
188	UST Site-Open	3-6	Database Inventory	VOC, SOC
189	UST Site-Closed	3-6	Database Inventory	VOC, SOC
190	UST Site-Closed	3-6	Database Inventory	VOC, SOC
192	Laundries	3-6	Database Inventory	VOC
194	Welding	3-6	Database Inventory	IOC, VOC, SOC
195	Storage-Household & Commercial	3-6	Database Inventory	IOC, VOC, SOC
196	Signs-Manufacturers	3-6	Database Inventory	IOC, VOC, SOC
197	Auto Radiator-Repair	3-6	Database Inventory	IOC, VOC, SOC
198	Tools-Pneumatic-Wholesale	3-6	Database Inventory	IOC, VOC, SOC
199	Auto Parts-Used & Rebuilt	3-6	Database Inventory	VOC, SOC
200	Hardware-Retail	3-6	Database Inventory	VOC, SOC
201	Farm Equipment-Wholesale	3-6	Database Inventory	VOC, SOC
202	Boat Dealers	3-6	Database Inventory	VOC, SOC
203	Rental Service-Stores & Yards	3-6	Database Inventory	VOC, SOC
204	Auto Body-Repair & Paint	3-6	Database Inventory	IOC, VOC, SOC
205	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
206	Engines-Rebuilding & Repairing	3-6	Database Inventory	IOC, VOC, SOC
207	Potato Harvesting/Planting Equipment	3-6	Database Inventory	VOC, SOC
208	Farm Equipment-Wholesale	3-6	Database Inventory	VOC, SOC
209	Trucking-Motor Freight	3-6	Database Inventory	VOC, SOC
210	Lawn Maintenance	3-6	Database Inventory	IOC, SOC
211	Veterinarians	3-6	Database Inventory	IOC, SOC
212	Veterinarians	3-6	Database Inventory	IOC, SOC
213	Tree Service	3-6	Database Inventory	IOC, SOC
214	Bicycles-Dealers	3-6	Database Inventory	VOC, SOC
215	Pharmaceutical Products-Wholesale	3-6	Database Inventory	IOC, VOC, SOC
216	Contractors-Equipment/Supplies/Dealers	3-6	Database Inventory	IOC, VOC, SOC
217	Auto Renting & Leasing	3-6	Database Inventory	VOC, SOC
218	Boat Repair	3-6	Database Inventory	IOC, VOC, SOC
219	Satellite Equipment & Systems-Manufacturer	3-6	Database Inventory	IOC, VOC

Site#	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
220	Plumbing Drain & Sewer Cleaning	3-6	Database Inventory	IOC, VOC, SOC
221	Hardware-Wholesale	3-6	Database Inventory	VOC, SOC
222	Landscape Contractors	3-6	Database Inventory	IOC, SOC
223	Mufflers & Exhaust Systems-Engine	3-6	Database Inventory	IOC, VOC, SOC
224	Parking Area Maintenance & Marking	3-6	Database Inventory	VOC, SOC
225	Auto Detail & Clean-Up Service	3-6	Database Inventory	IOC, VOC, SOC
226	Auto Body Shop Equipment & Supplies	3-6	Database Inventory	IOC, VOC, SOC
227	Plating-Manufacturers	3-6	Database Inventory	IOC, VOC
228	Auto Customizing	3-6	Database Inventory	IOC, VOC, SOC
229	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
230	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
231	Springs-Automotive-Sales & Service	3-6	Database Inventory	VOC, SOC
232	Farm Supplies (Wholesale)	3-6	Database Inventory	IOC, SOC
233	Auto Dealers-New Cars	3-6	Database Inventory	VOC, SOC
234	Bags-Plastic-Manufacturers	3-6	Database Inventory	IOC, VOC, SOC
236	Warehouses-Cold Storage	3-6	Database Inventory	IOC
237	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
239	Plumbing Drain & Sewer Cleaning	3-6	Database Inventory	IOC, VOC, SOC
240	Paint-Retail	3-6	Database Inventory	VOC
241	Carpet & Rug Cleaners	3-6	Database Inventory	VOC
242	Tire-Dealers-Retail	3-6	Database Inventory	VOC, SOC
243	Bicycles-Dealers	3-6	Database Inventory	VOC, SOC
244	Motorcycles & Motor Scooters-Dealers	3-6	Database Inventory	VOC, SOC
245	Recreational Vehicles	3-6	Database Inventory	VOC, SOC
246	Outboard Motors	3-6	Database Inventory	IOC, VOC, SOC
247	Auto Radiator-Repair	3-6	Database Inventory	IOC, VOC, SOC
248	Auto Parts-Used & Rebuilt	3-6	Database Inventory	VOC, SOC
249	Motorcycles & Motor Scooters-Dealers	3-6	Database Inventory	VOC, SOC
251	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
252	Funeral Directors	3-6	Database Inventory	IOC, SOC
253	Funeral Directors	3-6	Database Inventory	IOC, SOC
254	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
255	Auto Restoration-Antique	3-6	Database Inventory	IOC, VOC, SOC
256	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
257	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
258	Wheel Alignment-Frame & Axle Service	3-6	Database Inventory	IOC, VOC, SOC
259	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
260	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
261	Newspapers (Publishers)	3-6	Database Inventory	IOC, VOC
262	Boat Dealers	3-6	Database Inventory	VOC, SOC
263	Auto Body-Repair & Paint	3-6	Database Inventory	IOC, VOC, SOC
264	Car Washing & Polishing	3-6	Database Inventory	IOC, VOC, SOC

Site #	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
265	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
266	Auto Parts & Supplies-Retail	3-6	Database Inventory	VOC, SOC
267	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
268	Boat Repair	3-6	Database Inventory	IOC, VOC, SOC
270	Recreational Vehicles	3-6	Database Inventory	VOC, SOC
271	Lawn Mowers	3-6	Database Inventory	VOC, SOC
272	Dairy Products (Wholesale)	3-6	Database Inventory	IOC
273	Auto Body-Repair & Paint	3-6	Database Inventory	IOC, VOC, SOC
274	Auto Parts-Used & Rebuilt	3-6	Database Inventory	VOC, SOC
275	Store Fronts	3-6	Database Inventory	VOC
277	Landscape Contractors	3-6	Database Inventory	IOC, SOC
278	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
279	Pet Services	3-6	Database Inventory	IOC
280	Auto Body-Repair & Paint	3-6	Database Inventory	IOC, VOC, SOC
281	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
283	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
284	Signs-Manufacturers	3-6	Database Inventory	IOC, VOC, SOC
287	Electric Equipment & Supplies (Wholesale)	3-6	Database Inventory	IOC, VOC
288	Culverts	3-6	Database Inventory	IOC, VOC, SOC
290	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
291	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
292	Auto Body-Repair & Paint	3-6	Database Inventory	IOC, VOC, SOC
293	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
294	Shelving-Manufacturers	3-6	Database Inventory	VOC
295	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
296	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
297	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
299	Electric Equipment & Supplies (Wholesale)	3-6	Database Inventory	IOC, VOC
300	Truck-Repairing & Service	3-6	Database Inventory	IOC, VOC, SOC
301	Concrete Contractors	3-6	Database Inventory	IOC, VOC, SOC
302	Lawn Mowers-Sharpen & Repair	3-6	Database Inventory	VOC, SOC
303	Auto Body-Repair & Paint	3-6	Database Inventory	IOC, VOC, SOC
304	Playground Equipment-Manufacturers	3-6	Database Inventory	IOC, VOC, SOC
305	Snow Removal Equipment-Retail	3-6	Database Inventory	VOC, SOC
306	Decals-Manufacturers	3-6	Database Inventory	IOC, VOC, SOC
307	Janitors Supplies (Wholesale)	3-6	Database Inventory	VOC
308	Crop Planting Cultivating & Protection	3-6	Database Inventory	IOC, SOC
309	Laboratories-Dental	3-6	Database Inventory	IOC, VOC, SOC
310	Truck-Repairing & Service	3-6	Database Inventory	IOC, VOC, SOC
312	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
313	Converted Paper/Paperboard Products	3-6	Database Inventory	SOC
314	Goldsmiths & Silversmiths	3-6	Database Inventory	IOC, VOC
315	Fuel Injection Equipment-Repair	3-6	Database Inventory	IOC, VOC, SOC
316	Printers	3-6	Database Inventory	IOC, VOC

Site #	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
317	Landscape Contractors	3-6	Database Inventory	IOC, SOC
318	Motorcycles & Motor Scooters-Repair	3-6	Database Inventory	IOC, VOC, SOC
319	Recreational Vehicles-Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
320	Logging Companies	3-6	Database Inventory	VOC, SOC
321	Powder Coatings-Manufacturers	3-6	Database Inventory	SOC
322	Paint-Retail	3-6	Database Inventory	VOC
323	Railroads	3-6	Database Inventory	IOC, VOC, SOC
324	Taxicabs	3-6	Database Inventory	VOC, SOC
325	Water Treatment Equipment Service &	3-6	Database Inventory	IOC, SOC
327	Electric Equipment & Supplies (Wholesale)	3-6	Database Inventory	IOC, VOC
329	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
330	Movers	3-6	Database Inventory	VOC, SOC
331	Auto Renting & Leasing	3-6	Database Inventory	VOC, SOC
332	Auto Body-Repair & Paint	3-6	Database Inventory	IOC, VOC, SOC
333	Plants-Interior Design & Maintenance	3-6	Database Inventory	IOC, SOC
334	Janitor Service	3-6	Database Inventory	VOC
335	Batteries-Storage-Wholesale	3-6	Database Inventory	IOC
336	Feed-Wholesale	3-6	Database Inventory	IOC, SOC
337	Plumbing Fixtures & Supplies-Whole	3-6	Database Inventory	IOC, VOC, SOC
338	Commercial Printing	3-6	Database Inventory	IOC, VOC
339	Water & Sewage Companies-Utility	3-6	Database Inventory	IOC, VOC, SOC
340	Screen Printing	3-6	Database Inventory	IOC, VOC
341	Candy & Confectionery-Manufacturer	3-6	Database Inventory	IOC, VOC
342	Ice Cream & Frozen Desserts Manufacturers	3-6	Database Inventory	IOC, VOC
343	Auto Seatcovers Tops & Upholstery	3-6	Database Inventory	VOC, SOC
344	Oils-Fuel (Wholesale)	3-6	Database Inventory	VOC, SOC
345	Fire Departments	3-6	Database Inventory	VOC, SOC
346	Fire Departments	3-6	Database Inventory	VOC, SOC
347	Fire Departments	3-6	Database Inventory	VOC, SOC
348	Fire Protection Equipment & Supplies	3-6	Database Inventory	VOC, SOC
349	Welding	3-6	Database Inventory	IOC, VOC, SOC
351	Material Handling Equipment-Wholesale	3-6	Database Inventory	IOC, VOC, SOC
352	Photographic Equipment-Repairing	3-6	Database Inventory	IOC, VOC
353	Tire-Dealers-Retail	3-6	Database Inventory	VOC, SOC
354	Signs-Manufacturers	3-6	Database Inventory	IOC, VOC, SOC
355	Bags-Plastic-Manufacturers	3-6	Database Inventory	IOC, VOC, SOC
356	Paving Contractors	3-6	Database Inventory	VOC, SOC
357	Livestock Hauling	3-6	Database Inventory	IOC
358	Building Contractors	3-6	Database Inventory	IOC, VOC, SOC
359	Paint-Retail	3-6	Database Inventory	VOC
361	Auto Parts & Supplies-Retail	3-6	Database Inventory	VOC, SOC
362	Foods-Frozen-Manufacturers	3-6	Database Inventory	IOC, VOC
363	Signs-Manufacturers	3-6	Database Inventory	IOC, VOC, SOC

Site #	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
364	Millwork-Manufacturers	3-6	Database Inventory	VOC, SOC
365	Storage-Household & Commercial	3-6	Database Inventory	IOC, VOC, SOC
366	Storage-Household & Commercial	3-6	Database Inventory	IOC, VOC, SOC
367	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
368	Septic Tanks-Cleaning & Repairing	3-6	Database Inventory	IOC, VOC, SOC
369	Tree Service	3-6	Database Inventory	IOC, SOC
370	Signs-Manufacturers	3-6	Database Inventory	IOC, VOC, SOC
371	Publishers-Periodical	3-6	Database Inventory	IOC, VOC
372	Photographers-Portrait	3-6	Database Inventory	IOC, VOC
373	Concrete Contractors	3-6	Database Inventory	IOC, VOC, SOC
374	Wrecker Service	3-6	Database Inventory	IOC, VOC, SOC
375	Janitor Service	3-6	Database Inventory	VOC
376	Recreational Vehicles	3-6	Database Inventory	VOC, SOC
377	Laboratories-Dental	3-6	Database Inventory	IOC, VOC, SOC
378	Lawn Mowers	3-6	Database Inventory	VOC, SOC
379	Chemicals-Wholesale	3-6	Database Inventory	IOC, VOC, SOC
380	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
382	Hydraulic Equipment & Supplies (Wholesale)	3-6	Database Inventory	VOC, SOC
384	Barbers Equipment & Supplies-Manufacturer	3-6	Database Inventory	VOC, SOC
385	Canvas Goods-Manufacturers	3-6	Database Inventory	VOC
386	Ambulance Service	3-6	Database Inventory	VOC, SOC
387	Fire Departments	3-6	Database Inventory	VOC, SOC
388	Foundries-Steel	3-6	Database Inventory	IOC, VOC, SOC
389	Parking Area Maintenance & Marking	3-6	Database Inventory	VOC, SOC
390	Parking Area Maintenance & Marking	3-6	Database Inventory	VOC, SOC
391	Water & Sewage Companies-Utility	3-6	Database Inventory	IOC, VOC, SOC
393	Livestock Auction Markets	3-6	Database Inventory	IOC
394	Truck Equipment & Parts-Wholesale	3-6	Database Inventory	VOC, SOC
395	Steel Fabricators	3-6	Database Inventory	IOC, VOC
396	Trailers-Truck-Wholesale	3-6	Database Inventory	VOC, SOC
397	Radio/TV Broadcast/Communication	3-6	Database Inventory	VOC, SOC
398	Photo Finishing-Retail	3-6	Database Inventory	IOC, VOC
399	Snow Removal Service	3-6	Database Inventory	VOC, SOC
400	Trailer-Manufacturers	3-6	Database Inventory	VOC, SOC
401	Prefabricated Metal Buildings-Manufacturer	3-6	Database Inventory	IOC, VOC
402	Storage-Household & Commercial	3-6	Database Inventory	IOC, VOC, SOC
403	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
404	Sewage Disposal Systems	3-6	Database Inventory	IOC, VOC, SOC
405	Excavating Contractors	3-6	Database Inventory	IOC, VOC, SOC
406	Grain Elevators	3-6	Database Inventory	IOC
407	Tire-Dealers-Retail	3-6	Database Inventory	VOC, SOC
408	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
409	Machine Shops	3-6	Database Inventory	IOC, VOC, SOC

Site#	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
410	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
411	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
412	Engravers-Glassware-Manufacturers	3-6	Database Inventory	VOC, SOC
413	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
414	Cabinets-Manufacturers	3-6	Database Inventory	VOC, SOC
415	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
416	Tile-Ceramic-Contractors & Dealers	3-6	Database Inventory	VOC, SOC
417	Motorcycles & Motor Scooters-Repair	3-6	Database Inventory	IOC, VOC, SOC
418	Publishers-Periodical	3-6	Database Inventory	IOC, VOC
419	Lawn Mowers	3-6	Database Inventory	VOC, SOC
420	Auto Parts & Supplies-Wholesale	3-6	Database Inventory	VOC, SOC
421	Auto Parts & Supplies-Retail	3-6	Database Inventory	VOC, SOC
422	Painters	3-6	Database Inventory	VOC
423	Paving Contractors	3-6	Database Inventory	VOC, SOC
424	Dresses-Manufacturers	3-6	Database Inventory	VOC
425	Veterinarians	3-6	Database Inventory	IOC, SOC
426	Stereophonic & High Fidelity Equipment	3-6	Database Inventory	IOC, VOC
427	Tree Service	3-6	Database Inventory	IOC, SOC
428	Lawn Maintenance	3-6	Database Inventory	IOC, SOC
429	Tire-Dealers-Retail	3-6	Database Inventory	VOC, SOC
430	Tire-Dealers-Retail	3-6	Database Inventory	VOC, SOC
431	Transmissions-Auto	3-6	Database Inventory	IOC, VOC, SOC
432	Wheel Alignment-Frame & Axle Service	3-6	Database Inventory	IOC, VOC, SOC
433	Sporting Goods-Manufacturers	3-6	Database Inventory	VOC
434	Printers	3-6	Database Inventory	IOC, VOC
435	Auto Body-Repair & Paint	3-6	Database Inventory	IOC, VOC, SOC
436	Wrecker Service	3-6	Database Inventory	IOC, VOC, SOC
437	Sportswear-Mens-Manufacturers	3-6	Database Inventory	VOC
438	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
439	Tile-Ceramic-Contractors & Dealers	3-6	Database Inventory	VOC, SOC
440	Drilling & Boring Contractors	3-6	Database Inventory	IOC, VOC, SOC
441	Ornamental Metal Work-Manufacturer	3-6	Database Inventory	IOC, VOC
442	Dairy Products-Wholesale	3-6	Database Inventory	IOC
443	Mufflers & Exhaust Systems-Engine	3-6	Database Inventory	IOC, VOC, SOC
445	Movers	3-6	Database Inventory	VOC, SOC
446	Mufflers & Exhaust Systems-Engine	3-6	Database Inventory	IOC, VOC, SOC
447	Trucking-Motor Freight	3-6	Database Inventory	VOC, SOC
448	Ornamental Metal Work-Manufacturer	3-6	Database Inventory	IOC, VOC
449	Wrecker Service	3-6	Database Inventory	IOC, VOC, SOC
450	Storage-Household & Commercial	3-6	Database Inventory	IOC, VOC, SOC
451	Auto Lube Service	3-6	Database Inventory	IOC, VOC, SOC
453	Trucking-Heavy Hauling	3-6	Database Inventory	VOC, SOC
454	Truck Equipment & Parts-Wholesale	3-6	Database Inventory	VOC, SOC

Site #	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
455	State Government-National Security	3-6	Database Inventory	VOC, SOC
456	Wrecker Service	3-6	Database Inventory	IOC, VOC, SOC
457	Auto Parts & Supplies-Retail	3-6	Database Inventory	VOC, SOC
458	Veterinarians	3-6	Database Inventory	IOC, SOC
459	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
460	Veterinarians	3-6	Database Inventory	IOC, SOC
461	Printers	3-6	Database Inventory	IOC, VOC
462	Photographers-Portrait	3-6	Database Inventory	IOC, VOC
464	Photo Finishing-Retail	3-6	Database Inventory	IOC, VOC
465	Service Stations-Gasoline & Oil	3-6	Database Inventory	VOC, SOC
466	Brake Service	3-6	Database Inventory	IOC, VOC, SOC
467	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
468	Drapery & Curtain Cleaners	3-6	Database Inventory	VOC
469	Auto Parts & Supplies-Retail	3-6	Database Inventory	VOC, SOC
470	Gas Companies	3-6	Database Inventory	VOC, SOC
471	Barbers Equipment & Supplies-Wholesale	3-6	Database Inventory	VOC, SOC
473	Auto Machine Shop Service	3-6	Database Inventory	IOC, VOC, SOC
474	Motorcycles & Motor Scooters-Supplies	3-6	Database Inventory	VOC, SOC
475	Photo Finishing-Retail	3-6	Database Inventory	IOC, VOC
477	Plastics-High Pressure Laminates-	3-6	Database Inventory	IOC, VOC, SOC
478	Printers	3-6	Database Inventory	IOC, VOC
479	Newspapers (Publishers)	3-6	Database Inventory	IOC, VOC
480	Boat Repair	3-6	Database Inventory	IOC, VOC, SOC
481	Auto Body-Repair & Paint	3-6	Database Inventory	IOC, VOC, SOC
482	Auto Body-Repair & Paint	3-6	Database Inventory	IOC, VOC, SOC
483	Hardware-Wholesale	3-6	Database Inventory	VOC, SOC
484	Boat Dealers	3-6	Database Inventory	VOC, SOC
485	Mold Makers	3-6	Database Inventory	VOC, SOC
486	Printers	3-6	Database Inventory	IOC, VOC
487	Auto Body-Repair & Paint	3-6	Database Inventory	IOC, VOC, SOC
488	Trailers-Camping & Travel	3-6	Database Inventory	VOC, SOC
489	Snow Removal Equipment-Retail	3-6	Database Inventory	VOC, SOC
490	Industrial Measuring	3-6	Database Inventory	VOC, SOC
491	Rental Service-Stores & Yards	3-6	Database Inventory	VOC, SOC
493	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
494	Painters	3-6	Database Inventory	VOC
495	Four Wheel Drive-Repairing & Service	3-6	Database Inventory	IOC, VOC, SOC
496	Storage-Household & Commercial	3-6	Database Inventory	IOC, VOC, SOC
497	Auto Parts & Supplies-Retail	3-6	Database Inventory	VOC, SOC
498	Bicycles-Dealers	3-6	Database Inventory	VOC, SOC
499	Rope-Manufacturers	3-6	Database Inventory	VOC, SOC
500	Brick-Clay Common & Face-Manufacturing	3-6	Database Inventory	IOC, VOC, SOC
502	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
503	Auto Dealers-New Cars	3-6	Database Inventory	VOC, SOC

Site #	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
504	Auto Dealers-New Cars	3-6	Database Inventory	VOC, SOC
505	Auto Parts-Used & Rebuilt	3-6	•	VOC, SOC
		3-6	Database Inventory	-
506	Bicycles-Dealers		Database Inventory	VOC, SOC
507	Florists-Supplies-Wholesale	3-6	Database Inventory	IOC SOC
509	Truck Renting & Leasing	3-6	Database Inventory	VOC, SOC
510	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
511	Auto Body-Repair & Paint	3-6	Database Inventory	IOC, VOC, SOC
512	Printers	3-6	Database Inventory	IOC, VOC
513	Campgrounds	3-6	Database Inventory	IOC, VOC, SOC
515	Bicycles-Dealers	3-6	Database Inventory	VOC, SOC
517	Signs-Manufacturers	3-6	Database Inventory	IOC, VOC, SOC
518	Auto Dealers-New Cars	3-6	Database Inventory	VOC, SOC
520	Bathtubs & Sinks-Repairing & Refinishing	3-6	Database Inventory	IOC, VOC, SOC
521	Photographers-Portrait	3-6	Database Inventory	IOC, VOC
522	Car Washing & Polishing	3-6	Database Inventory	IOC, VOC, SOC
523	Washers-Pressure	3-6	Database Inventory	IOC, VOC, SOC
524	Landscape Contractors	3-6	Database Inventory	IOC, SOC
525	Transmissions-Truck Tractor Etc.	3-6	Database Inventory	IOC, VOC, SOC
526	Paint-Retail	3-6	Database Inventory	VOC
527	Machine Shops	3-6	Database Inventory	IOC, VOC, SOC
528	Machine Shops	3-6	Database Inventory	IOC, VOC, SOC
529	Tile-Ceramic-Contractors & Dealers	3-6	Database Inventory	VOC, SOC
530	Farm Supplies (Wholesale)	3-6	Database Inventory	IOC, SOC
531	Auto Radiator-Repair	3-6	Database Inventory	IOC, VOC, SOC
532	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
533	Photographers-Portrait	3-6	Database Inventory	IOC, VOC
534	Veterinarians	3-6	Database Inventory	IOC, SOC
535	Puzzles-Manufacturers	3-6	Database Inventory	VOC
536	Steel Fabricators	3-6	Database Inventory	IOC, VOC
537	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
538	Campgrounds	3-6	Database Inventory	IOC, VOC, SOC
539	Veterinarians	3-6	Database Inventory	IOC, SOC
540	Carpet & Rug Cleaners	3-6	Database Inventory	VOC
541	Painters	3-6	Database Inventory	VOC
542	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
543	Cleaners	3-6	Database Inventory	VOC
544	Auto Detail & Clean-Up Service	3-6	Database Inventory	IOC, VOC, SOC
545	Newspapers (Publishers)	3-6	Database Inventory	IOC, VOC
546	Pet Services	3-6	Database Inventory	IOC
547	Auto Body-Repair & Paint	3-6	Database Inventory	IOC, VOC, SOC
548	Tractor-Dealers-Wholesale	3-6	Database Inventory	VOC, SOC
549	Auto Renting & Leasing	3-6	Database Inventory	VOC, SOC
550	Trucking-Motor Freight	3-6	Database Inventory	VOC, SOC

Site#	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
551	Truck Renting & Leasing	3-6	Database Inventory	VOC, SOC
552	Truck Renting & Leasing	3-6	Database Inventory	VOC, SOC
553	Truck Renting & Leasing	3-6	Database Inventory	VOC, SOC
554	Truck Renting & Leasing	3-6	Database Inventory	VOC, SOC
555	Microfilming Service Equipment & Supplies	3-6	Database Inventory	IOC, VOC
556	Federal Government-National Security	3-6	Database Inventory	VOC, SOC
558	Snowmobiles	3-6	Database Inventory	VOC, SOC
559	Printers	3-6	Database Inventory	IOC, VOC
560	Sheet Metal Work Contractors	3-6	Database Inventory	IOC, VOC
561	Excavating Contractors	3-6	Database Inventory	IOC, VOC, SOC
562	Excavating Contractors	3-6	Database Inventory	IOC, VOC, SOC
563	Auto Repair & Service	3-6	Database Inventory	IOC, VOC, SOC
564	Trucking-Heavy Hauling	3-6	Database Inventory	VOC, SOC
565	Controls-Control System/Regulators	3-6	Database Inventory	VOC, SOC
566	Wheels	3-6	Database Inventory	VOC, SOC
567	Ornamental Metal Work-Manufacturer	3-6	Database Inventory	IOC, VOC
568	Veterinarians	3-6	Database Inventory	IOC, SOC
569	Lawn & Garden Equipment & Supplies	3-6	Database Inventory	IOC, SOC
570	Funeral Directors	3-6	Database Inventory	IOC, SOC
571	Auto Dealers-Used Cars	3-6	Database Inventory	VOC, SOC
572	Auto Lube Service	3-6	Database Inventory	IOC, VOC, SOC
574	Roofing Contractors	3-6	Database Inventory	IOC, VOC, SOC
575	Service Stations-Gasoline & Oil	3-6	Database Inventory	VOC, SOC
576	Service Stations-Gasoline & Oil	3-6	Database Inventory	VOC, SOC
577	Auto Lube Service	3-6	Database Inventory	IOC, VOC, SOC
578	Signs-Manufacturers	3-6	Database Inventory	IOC, VOC, SOC
579	Printers	3-6	Database Inventory	IOC, VOC
580	Toxic Release Inventory Site	3-6	Database Inventory	VOC, SOC
581	CERCLA Site	3-6	Database Inventory	IOC, VOC
582	CERCLA Site	3-6	Database Inventory	VOC, SOC
583	RCRA Site	3-6	Database Inventory	VOC, SOC
584	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
585	RCRA Site	3-6	Database Inventory	VOC, SOC
586	RCRA Site	3-6	Database Inventory	VOC
587	RCRA Site	3-6	Database Inventory	VOC
588	RCRA Site	3-6	Database Inventory	VOC
589	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
590	RCRA Site	3-6	Database Inventory	IOC, VOC
591	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
592	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
593	RCRA Site	3-6	Database Inventory	VOC, SOC
594	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
595	RCRA Site	3-6	Database Inventory	VOC, SOC

Site #	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
596	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
597	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
598	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
599	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
600	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
601	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
602	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
603	RCRA Site	3-6	Database Inventory	VOC, SOC
604	RCRA Site	3-6	Database Inventory	IOC, VOC
605	RCRA Site	3-6	Database Inventory	VOC, SOC
606	RCRA Site	3-6	Database Inventory	IOC, VOC
607	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
608	RCRA Site	3-6	Database Inventory	VOC, SOC
609	RCRA Site	3-6	Database Inventory	VOC, SOC
610	RCRA Site	3-6	Database Inventory	VOC, SOC
611	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
612	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
613	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
614	RCRA Site	3-6	Database Inventory	IOC, VOC, SOC
615	Mine	3-6	Database Inventory	IOC, VOC, SOC
616	Mine	3-6	Database Inventory	IOC, VOC, SOC
617	Mine	3-6	Database Inventory	IOC, VOC, SOC
618	Mine	3-6	Database Inventory	IOC, VOC, SOC
619	Mine	3-6	Database Inventory	IOC, VOC, SOC
620	Mine	3-6	Database Inventory	IOC, VOC, SOC
621	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
622	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
623	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
624	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
625	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
626	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
627	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
628	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
629	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
630	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
631	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
632	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
633	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
634	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
635	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
636	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
637	Deep Injection Well	3-6	Database Inventory	IOC, VOC, SOC
638	SARA Site	3-6	Database Inventory	IOC, VOC

Site #	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
639	SARA Site	3-6	Database Inventory	IOC, VOC
640	SARA Site	3-6	Database Inventory	IOC, VOC, SOC
641	SARA Site	3-6	Database Inventory	VOC, SOC
642	SARA Site	3-6	Database Inventory	VOC, SOC
643	SARA Site	3-6	Database Inventory	VOC, SOC
644	SARA Site	3-6	Database Inventory	IOC, VOC
645	SARA Site	3-6	Database Inventory	VOC, SOC
646	SARA Site	3-6	Database Inventory	VOC, SOC
647	SARA Site	3-6	Database Inventory	VOC, SOC
648	SARA Site	3-6	Database Inventory	IOC, VOC, SOC
649	SARA Site	3-6	Database Inventory	IOC, VOC, SOC
650	SARA Site	3-6	Database Inventory	VOC, SOC
651	SARA Site	3-6	Database Inventory	VOC, SOC
652	SARA Site	3-6	Database Inventory	VOC, SOC
653	SARA Site	3-6	Database Inventory	VOC, SOC
654	SARA Site	3-6	Database Inventory	VOC, SOC
655	SARA Site	3-6	Database Inventory	VOC, SOC
656	SARA Site	3-6	Database Inventory	IOC, VOC, SOC
657	SARA Site	3-6	Database Inventory	VOC, SOC
658	SARA Site	3-6	Database Inventory	IOC, VOC, SOC
659	SARA Site	3-6	Database Inventory	VOC, SOC
660	Recharge Point	3-6	Database Inventory	IOC, VOC, SOC
661	AST Site	3-6	Database Inventory	VOC, SOC
662	AST Site	3-6	Database Inventory	VOC, SOC
663	AST Site	3-6	Database Inventory	VOC, SOC
664	AST Site	3-6	Database Inventory	VOC, SOC
665	AST Site	3-6	Database Inventory	VOC, SOC
666	Group 1 Site	3-6	Database Inventory	
667	Landfill	3-6	Database Inventory	IOC, VOC, SOC
668	Landfill	3-6	Database Inventory	IOC, VOC, SOC
669	LUST Site-Cleanup Complete	6-10	Database Inventory	VOC, SOC
670	UST Site-Closed	6-10	Database Inventory	VOC, SOC
671	UST Site-Closed	6-10	Database Inventory	VOC, SOC
672	UST Site-Open	6-10	Database Inventory	VOC, SOC
673	UST Site-Open	6-10	Database Inventory	VOC, SOC
674	UST Site-Closed	6-10	Database Inventory	VOC, SOC
675	UST Site-Closed	6-10	Database Inventory	VOC, SOC
676	UST Site-Closed	6-10	Database Inventory	VOC, SOC
677	UST Site-Open	6-10	Database Inventory	VOC, SOC
678	UST Site-Closed	6-10	Database Inventory	VOC, SOC
679	UST Site-Open	6-10	Database Inventory	VOC, SOC
680	UST Site-Closed	6-10	Database Inventory	VOC, SOC
681	UST Site-Closed	6-10	Database Inventory	VOC, SOC
682	UST Site-Open	6-10	Database Inventory	VOC, SOC

Site #	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
683	UST Site-Closed	6-10	Database Inventory	VOC, SOC
684	UST Site-Closed	6-10	Database Inventory	VOC, SOC
685	UST Site-Open	6-10	Database Inventory	VOC, SOC
686	UST Site-Open	6-10	Database Inventory	VOC, SOC
687	UST Site-Open	6-10	Database Inventory	VOC, SOC
688	UST Site-Open	6-10	Database Inventory	VOC, SOC
689	UST Site-Open	6-10	Database Inventory	VOC, SOC
690	UST Site-Open	6-10	Database Inventory	VOC, SOC
691	UST Site-Closed	6-10	Database Inventory	VOC, SOC
692	UST Site-Open	6-10	Database Inventory	VOC, SOC
693	Dairy	6-10	Database Inventory	IOC
694	Dairy	6-10	Database Inventory	IOC
695	Dairy	6-10	Database Inventory	IOC
696	Truck-Dealers-Used	6-10	Database Inventory	VOC, SOC
697	Machine Shops	6-10	Database Inventory	IOC, VOC, SOC
698	Truck-Repairing & Service	6-10	Database Inventory	IOC, VOC, SOC
700	Dog & Cat Kennels	6-10	Database Inventory	IOC
701	Auto Repair & Service	6-10	Database Inventory	IOC, VOC, SOC
702	Cabinets-Manufacturers	6-10	Database Inventory	VOC, SOC
703	Storage-Household & Commercial	6-10	Database Inventory	IOC, VOC, SOC
704	Auto Dealers-Used Cars	6-10	Database Inventory	VOC, SOC
705	Auto Body-Repair & Paint	6-10	Database Inventory	IOC, VOC, SOC
706	Auto Dealers-Used Cars	6-10	Database Inventory	VOC, SOC
707	Truck Equipment & Parts-Used Wholesale	6-10	Database Inventory	VOC, SOC
708	Motorcycles & Motor Scooters-Dealer	6-10	Database Inventory	VOC, SOC
710	Dome Structures	6-10	Database Inventory	IOC, VOC, SOC
711	Machine Shops	6-10	Database Inventory	IOC, VOC, SOC
712	Nurserymen	6-10	Database Inventory	IOC, SOC
713	Castings-Metals	6-10	Database Inventory	IOC, VOC
715	Wrecker Service	6-10	Database Inventory	IOC, VOC, SOC
716	Roofing Contractors	6-10	Database Inventory	IOC, VOC, SOC
717	Contractors-Equipment/Supplies/Dealers	6-10	Database Inventory	IOC, VOC, SOC
718	Truck-Dealers-Used	6-10	Database Inventory	VOC, SOC
719	Excavating Contractors	6-10	Database Inventory	IOC, VOC, SOC
720	Material Handling Equipment-Wholesale	6-10	Database Inventory	IOC, VOC, SOC
721	Cut Stone & Stone Products Manufacturers	6-10	Database Inventory	IOC, VOC, SOC
722	Boat Dealers	6-10	Database Inventory	VOC, SOC
723	Auto Restoration-Antique	6-10	Database Inventory	IOC, VOC, SOC
724	Potato Processing Equipment-Manufacturer	6-10	Database Inventory	VOC, SOC
725	Ornamental Metal Work-Manufacturer	6-10	Database Inventory	IOC, VOC
726	Motorcycles & Motor Scooters-Dealer	6-10	Database Inventory	VOC, SOC
727	Welding Equipment & Supplies (Wholesale)	6-10	Database Inventory	VOC, SOC
728	Farm Equipment-Manufacturers	6-10	Database Inventory	VOC, SOC

Site#	Source Description ¹	TOT Zone (Years) ²	Source of Information	Potential Contaminants ³
729	Cleaning Compounds-Manufacturers	6-10	Database Inventory	VOC
730	Plastics-Vacuum/Pressure Forming-	6-10	Database Inventory	IOC, VOC, SOC
731	Tire-Retreading & Repairing	6-10	Database Inventory	VOC, SOC
732	Delivery Service	6-10	Database Inventory	VOC, SOC
733	Janitor Service	6-10	Database Inventory	VOC
735	Trucking-Liquid & Dry Bulk	6-10	Database Inventory	VOC, SOC
736	Farms	6-10	Database Inventory	IOC, SOC
737	Relays & Industrial Controls-Manufacturer	6-10	Database Inventory	VOC, SOC
739	Recreational Vehicles	6-10	Database Inventory	VOC, SOC
740	Machine Tools-Wholesale	6-10	Database Inventory	IOC, VOC, SOC
741	Chemicals-Wholesale	6-10	Database Inventory	IOC, VOC, SOC
742	Llamas	6-10	Database Inventory	IOC
743	Alternators & Starters-Marine	6-10	Database Inventory	VOC, SOC
744	Service Stations-Gasoline & Oil	6-10	Database Inventory	VOC, SOC
745	Carpet & Rug Cleaners	6-10	Database Inventory	VOC
746	Labels-Paper Manufacturers	6-10	Database Inventory	VOC
748	Painters	6-10	Database Inventory	VOC
749	Hydraulic Equipment & Supplies (Wholesale)	6-10	Database Inventory	VOC, SOC
750	Government-Forestry Services	6-10	Database Inventory	VOC, SOC
751	Auto Parts-Used & Rebuilt	6-10	Database Inventory	VOC, SOC
752	RCRA Site	6-10	Database Inventory	VOC, SOC
753	RCRA Site	6-10	Database Inventory	IOC, VOC, SOC
754	RCRA Site	6-10	Database Inventory	VOC, SOC
755	RCRA Site	6-10	Database Inventory	IOC, VOC, SOC
756	Mine	6-10	Database Inventory	IOC, VOC, SOC
757	Mine	6-10	Database Inventory	IOC, VOC, SOC
758	Mine	6-10	Database Inventory	IOC, VOC, SOC
759	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
760	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
761	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
762	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
763	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
764	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
765	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
766	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
767	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
768	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
769	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
770	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
771	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
772	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
773	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC

Site #	Source Description ¹	TOT Zone	Source of Information	Potential
		(Years) ²		Contaminants ³
774	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
775	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
776	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
777	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
778	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
779	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
780	Deep Injection Well	6-10	Database Inventory	IOC, VOC, SOC
781	SARA Site	6-10	Database Inventory	IOC, VOC, SOC
782	SARA Site	6-10	Database Inventory	IOC, VOC, SOC
783	SARA Site	6-10	Database Inventory	IOC, VOC, SOC
784	SARA Site	6-10	Database Inventory	IOC, VOC, SOC
785	SARA Site	6-10	Database Inventory	VOC, SOC
786	SARA Site	6-10	Database Inventory	IOC, VOC, SOC
787	SARA Site	6-10	Database Inventory	VOC, SOC
788	SARA Site	6-10	Database Inventory	IOC, VOC, SOC
789	Recharge Point	6-10	Database Inventory	IOC, VOC, SOC
790	Recharge Point	6-10	Database Inventory	IOC, VOC, SOC
791	Recharge Point	6-10	Database Inventory	IOC, VOC, SOC
792	Recharge Point	6-10	Database Inventory	IOC, VOC, SOC
793	Recharge Point	6-10	Database Inventory	IOC, VOC, SOC
794	AST Site	6-10	Database Inventory	VOC, SOC
795	AST Site	6-10	Database Inventory	VOC, SOC
796	Group 1 Site	6-10	Database Inventory	

Site #'s are non-sequential

CERCLA = Comprehensive Environmental Response Compensation and Liability Act, TRI = Toxic Release Inventory

UST = underground storage tank, LUST = leaking underground storage tank, AST = aboveground storage tank

¹ SARA = Superfund Amendments and Reauthorization Act, RCRA = Resource Conservation Recovery Act,

²TOT = time-of-travel (in years) for a potential contaminant to reach the wellhead

³ IOC = inorganic chemical, VOC = volatile organic chemical, SOC = synthetic organic chemical

Appendix B

Basic American Foods Susceptibility Analysis Worksheet

The final scores for the susceptibility analysis were determined using the following formulas:

- 1) VOC/SOC/IOC Final Score = Hydrologic Sensitivity + System Construction + (Potential Contaminant/Land Use x 0.2)
- 2) Microbial Final Score = Hydrologic Sensitivity + System Construction + (Potential Contaminant/Land Use $x\ 0.35$)

Final Susceptibility Scoring:

- 0 5 Low Susceptibility
- 6 12 Moderate Susceptibility
- ≥ 13 High Susceptibility

Ground Water Susceptibility Report Public Water System Name :BASIC AMERICAN FOOD Public Water System Number 6060020 : WELL #3

System Construction		SCORE			
Drill Date	4/1/58				
Driller Log Available	YES				
Sanitary Survey (if yes, indicate date of last survey)	YES	1999			
Well meets IDWR construction standards	NO	1			
Wellhead and surface seal maintained	NO	1			
Casing and annular seal extend to low permeability unit	NO	2			
Highest production 100 feet below static water level	NO	1			
Well located outside the 100 year flood plain	YES	0			
	Total System Construction Score	5			
Hydrologic Sensitivity					
Soils are poorly to moderately drained	NO	2			
Vadose zone composed of gravel, fractured rock or unknown	YES	1			
Depth to first water > 300 feet	NO	1			
Aquitard present with > 50 feet cumulative thickness	NO	2			
	Total Hydrologic Score	6			
		IOC	VOC	SOC	Microbi
Potential Contaminant / Land Use - ZONE 1A		Score	Score	Score	Score
Land Use Zone 1A	IRRIGATED CROPLAND	2	2	2	2
Farm chemical use high	YES	2	0	2	
IOC, VOC, SOC, or Microbial sources in Zone 1A	YES	NO	YES	NO	NO
Total Potent:	ial Contaminant Source/Land Use Score - Zone 1A	4	2	4	2
Potential Contaminant / Land Use - ZONE 1B					
Contaminant sources present (Number of Sources)	YES	35	70	66	11
(Score = # Sources X 2) 8 Points Maximum		8	8	8	8
Sources of Class II or III leacheable contaminants or	YES	15	59	6	
4 Points Maximum		4	4	4	
Zone 1B contains or intercepts a Group 1 Area	YES	0	0	2	0
Land use Zone 1B	Greater Than 50% Irrigated Agricultural Land	4	4	4	4
Total Potentia	l Contaminant Source / Land Use Score - Zone 1B	16	16	18	12
Potential Contaminant / Land Use - ZONE II					
Contaminant Sources Present	YES	2	2	2	
Sources of Class II or III leacheable contaminants or	YES	1	1	1	
Land Use Zone II	Less than 25% Agricultural Land	0	0	0	
	Contaminant Source / Land Use Score - Zone II	3	3	3	0
Potential					
Potential Contaminant / Land Use - ZONE III					
	YES	1	1	 1	

Is there irrigated agricultural lands that occur	py > 50% of	YES	1	1	1	
Tot	al Potential Contamina	ant Source / Land Use Score - Zone III	3	3	3	0
Cumulative Potential Contaminant / Land Use S	core		26	24	28	14
. Final Susceptibility Source Score			16	16	17	16
Final Well Ranking			High	High	 High	 High

Ground Water Susceptibility Report Public Water System Name :BASIC AMERICAN FOOD Public Water System Number	6060020	WELL #2
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. System Construction		SCORE			
Drill Data	10/1/56				
Sanitary Survey (if yes, indicate date of last survey)		1000			
Casing and annular seal extend to low permeability unit		-			
Highest production 100 feet below static water level		=			
Well located outside the 100 year flood plain					
	Total System Construction Score	5			
2. Hydrologic Sensitivity					
Soils are poorly to moderately drained	NO	2			
Vadose zone composed of gravel, fractured rock or unknown	YES	1			
Depth to first water > 300 feet	Reconstruction standards NO assurance seal maintained NO to low permeability unit NO the 100 year flood plain YES Total System Construction Score NO Total System Construction Score Total System Construction Score NO Total Hydrologic Score Total Hydrologic Score Total Hydrologic Score Total Hydrologic Score Total Farm chemical use high YES Total Potential Contaminant Source/Land Use Score - Zone IA Points Maximum Seatcheable contaminants or YES 4 Points Maximum Seatcheable contaminants or YES Land use Zone IB Greater Than 50% Irrigated Agricultural Land Total Potential Contaminant Source / Land Use Score - Zone IB Total Potential Contaminant Source / Land Use Score - Zone II Total Potential Contaminant Source / Land Use Score - Zone II Potential Contaminant Source / Land Use Score - Zone II	1			
Aquitard present with > 50 feet cumulative thickness	NO	2			
	Total Hydrologic Score	6			
		TOC:	VOC:	SOC:	Microbial
3. Potential Contaminant / Land Use - ZONE 1A		Score	Score	Score	Score
I and Use Zone 1A	TRRTGATED CROPLAND	2	2	2	2
					-
IOC, VOC, SOC, or Microbial sources in Zone 1A					NO
		4	2	4	2
Potential Contaminant / Land Use - ZONE 1B					
Contaminant sources present (Number of Sources)		 35	70	 66	11
(Score = # Sources X 2) 8 Points Maximum	110		, 0		8
Sources of Class II or III leacheable contaminants or	VES				Ö
	110			-	
Zone 1B contains or intercepts a Group 1 Area	VEC			_	0
	Drill Date 10/1/56 Total System Construction Score S	4			
Datid use 2016 is					
		16	16	18	12
Potential Contaminant / Land Use - ZONE II					
Contaminant Sources Present		2	2	2	
Sources of Class II or III leacheable contaminants or	YES	1	1	1	
Land Use Zone II		0	0	0	
		3	3	3	0
Potential Contaminant / Land Use - ZONE III					
Contaminant Source Present	YES	1	I		
Contaminant Source Present Sources of Class II or III leacheable contaminants or					

Is there irrigated agricultural lands th	at occupy > 50% of	YES	1	1	1		
	Total Potential Contamir	nant Source / Land Use Score - Zone III	3	3	3	0	
Cumulative Potential Contaminant / Lan	d Use Score		26	24	28	14	
4. Final Susceptibility Source Score			16	16	17	16	
5. Final Well Ranking			High	High	High	High	